



July 2005 Time Local Path Length Path Number of Estimated Persons Width Damage MINNESOTA, Central and South Central **Swift County** Benson Arpt 03 0236CST 0 0 Thunderstorm Wind (MG53) A wind gust of 61 MPH was recorded at the Benson airport. **Stearns County Pavnesville** 07 1914CST Hail(1.00) **MNZ060** Hennepin 1200CST 2000CST 0 0 **Excessive Heat** High temperatures at Minneapolis-St. Paul International Airport remained at or above 90 degrees for 9 consecutive days between July 9th and 17th. This extended period of hot weather set a record for the 3rd longest streak of at or above 90 degree highs since 1891 in the Twin Cities. On July 12th, a laborer putting up a fence in Arden Hills in Ramsey County suffered severe heatstroke. He collapsed at the work site and was rushed to a local hospital. His body temperature reached 108.8 degrees, but miraculously he survived after receiving intensive medical attention. He awoke from a medically-induced sedation 24 hours after falling ill and made a full recovery. **Dakota County** 1945CST 75K Farmington 17 Lightning The roof of a home on Eureka Avenue was struck by lightning. The resulting fire caused \$75,000 damage to the structure. **Goodhue County** 2030CST 2100CST Thunderstorm Wind (EG50) Countywide 0 17 Scattered tree branches were downed across the county. The time was estimated. **Stevens County** 7 W Donnelly 0710CST Thunderstorm Wind (EG50) 0 Four to 5 inch limbs were downed. **Stevens County Morris Arpt** 0719CST Thunderstorm Wind (MG57) A wind gust of 66 MPH was recorded at the Morris airport. **Stevens County** 23 0720CST 0 Thunderstorm Wind (EG55) **Donnelly** A Trees were downed across town. A machine shed was destroyed, but the shed door was open at the time which helped make the damage more severe. **Stevens County** 6 NE Donnelly to 9 NE Morris 0 0 Thunderstorm Wind (MG74) 23

Downburst winds measured as high as 85 MPH (2 miles northwest of Swan Lake at 8:33 AM EDT) caused considerable damage in a 2 mile wide swath stretching from Highway 59 to the Pope County line in northeast Stevens County. The high wind damage path that started at Highway 59 was found between the following locations: 1 mile south of the Grant/Stevens county line and the County Road 20 intersection. The path continued in an east-southeast direction toward the Pope County border and crossed the county line between the following locations: 1 mile north of County Road 20 and 150th Street. A survey of the path revealed the following damage: 5 power poles were downed on the east side of Highway 59 along with significant tree damage nearby; significant tree and corn damage along County Road 20 from Highway 59 to the Pope County line. See the Pope County entry for damage reports east of the county line.





Time Path Path Number of Estimated Local/ Length Width Persons Damage Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

MINNESOTA, Central and South Central

Douglas County Alexandria

23 0730CST 0 0 Lightning

Four homes were struck by lightning. A home on South Union Lake Road suffered a 16 inch hole where a bolt struck the house. A home on County Road 44 reported items being knocked off walls and a hole in the wall from a lightning strike. A lightning strike fried wires at a home on Kyle Drive. A home that was struck on North McKay Avenue suffered no damage.

Pope County
7 NNW Cyrus to
3 N Starbuck

23 0735CST 0 0 0 Thunderstorm Wind (MG77) 0750CST



A metal grain bin was caved in on its west side by high winds along Highway 114 about 3 miles south of Lowry in Pope County. (Photo courtesy of Karen Trammel. National Weather Service)

A 2 mile wide swath of downburst wind damage continued from Stevens County into northwest Pope County. The damage path crossed the county line between the following locations: 1 mile north of County Road 32 and 150th Street. The path continued in an east-southeast direction and was last noted stretching from Lowry to 1 mile north of Starbuck. A survey of the path revealed the following damage: significant tree and corn damage along County Road 26; damage to the roof of a home along County Road 26 about 3 miles east of the county line from a fallen 2 foot diameter tree branch; a flattened 100-year-old barn (3 cattle killed inside), a damaged farm house, and demolished cement silo 2 miles south of Farwell; a lost machine shed and partial destruction of a dairy barn about 2.5 miles south of Farwell; significant tree damage in Lowry (in the vicinity of where a wind gust of 89 MPH was measured by a home weather station) including the roof of a home that was damaged by a felled tree; destruction of a large garage on the southeast side of Lowry along County Road 28; a caved-in metal grain bin and a heavily damaged barn on Highway 114 three miles south of Lowry; significant damage to a homestead near the intersection of Highway 114 and 190th Street about 1 mile north of Starbuck; numerous downed trees 3 miles north of Starbuck including one which damaged a car. Minor tree damage was noted east of Highway 114 as well, but the high winds that caused the damage dissipated shortly after passing this location. One observer 3 miles north of Starbuck noted that the high winds continued off and on for nearly 30 minutes, coming in 6 distinct "waves".





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	Character of Storm	July 2005
MINNESOTA, Central and South Central									
Douglas County 1 S Kensington	23 Numer	0740CST ous trees were do	owned.		0	0		Thunderstorm W	ind (EG55)
Pope County Cyrus	23 Numer	0745CST ous trees were do	owned.		0	0		Thunderstorm W	ind (EG55)
Douglas County 9 SW Alexandria	23 A tree	0750CST was downed on the	he south end o	of Lake Mary	0	0		Thunderstorm W	ind (EG52)
Pope County Starbuck	23 A tree	0750CST was downed.			0	0		Thunderstorm W	ind (EG52)
Pope County 1 SW Glenwood to Glenwood		0757CST 0802CST were downed at I					te Minnewaska. One f Club.	Thunderstorm W	·
Pope County Sedan	23 Trees v	0815CST were downed.			0	0		Thunderstorm W	ind (EG52)
Stearns County Countywide	23 Minor	0830CST 0930CST street flooding w	as reported in	Sauk Centre	0 , Waite Park	0 k, and St. C	Cloud.	Heavy Rain	
Stearns County Countywide							nd St. Augusta. In St. he roof of a garage.	Thunderstorm W Cloud a felled 175-fo	, ,
Kandiyohi County 3 S New London	23 A tree	0850CST was downed onto	North Shore	Drive.	0	0		Thunderstorm W	ind (EG52)
Wright County 3 W Annandale	23 A tree	0850CST was downed acro	ss the intersec	ction of Cour	0 nty Road 36	0 and 80th S	Street.	Thunderstorm W	ind (EG52)
Wright County 2 S Clearwater	23 A tree	0850CST was downed acro	ss Highway 2	24.	0	0		Thunderstorm W	ind (EG52)
Benton County Countywide		0900CST 0920CST pread tree and po owned one mile r				0 the county,	including in the com	Thunderstorm W munities of Rice and	
Sherburne County Countywide	23 Localiz	0900CST zed flooding was	reported in E	lk River and	0 Zimmerman	0		Heavy Rain	
Wright County South Haven	23 A 60 M	0909CST IPH wind gust w	as measured t	oy an anemor	0 meter.	0		Thunderstorm W	ind (MG52)





July 2005 Time Local/ Path Length Path Number of Estimated Persons Width Damage MINNESOTA, Central and South Central Wright County **Buffalo** 0910CST 0 0 Thunderstorm Wind (EG52) A tree was downed at the law enforcement center. **Sherburne County** 1 N Zimmerman 0920CST 0 Thunderstorm Wind (EG52) A tree was downed across Highway 169. **Sherburne County** Elk River 0922CST Thunderstorm Wind (EG52) A tree was downed at the intersection of 147th Street and Highway 10. **Anoka County** Countywide 23 Thunderstorm Wind (EG52) Several trees and a handful of power lines were downed across the county, including those that fell in the following communities: Coon Rapids, Andover, Anoka, Blaine, Fridley, Lino Lakes, and Columbia Heights. Downed trees damaged vehicles. In addition, highway signs were bent over in Coon Rapids, a HAM Radio tower was downed in Centerville, and a pontoon boat was blown off a moving trailer. A spotter in Coon Rapids recorded a wind gust of 46 MPH. **Hennepin County** Thunderstorm Wind (EG52) **Brooklyn Park** 23 0930CST 0 Three trees up to 15 inches in diameter were downed in Schilling Park near the intersection of Regent Avenue and Brooklyn Boulevard. The time was estimated. **Hennepin County** 0930CST St Louis Park 0 Lightning Lightning struck a service line on Powell Road and started a fire which shot 20 feet into the air. A gas meter on a nearby building also caught fire. Mille Lacs County **Princeton** 23 0930CST 0 Thunderstorm Wind (EG52) Power lines were downed. **Anoka County** Hail(0.75) Anoka 23 0932CST 0 **Isanti County** Cambridge 23 0935CST Thunderstorm Wind (EG52) A trailer was blown into the street. **Hennepin County** Thunderstorm Wind (EG52) Crystal A tree was downed at the intersection of 36th Avenue and Douglas Drive. **Hennepin County** Deephaven 0 0 Thunderstorm Wind (EG50) Tree branches up to 5 inches in diameter were downed near the intersection of Minnetonka Boulevard and Highway 101. The time was estimated. **Ramsey County** 0945CST 1045CST Countywide 23 0 0 **Heavy Rain** Localized flooding was reported in the English and Frost areas of Maplewood. In Ramsey, water covered County Road C2 at the bottom of a hill. **Ramsey County** Little Canada 23 0947CST Thunderstorm Wind (EG52) Trees were downed. Ramsey County North St Paul Thunderstorm Wind (EG52)

Exterior lights were blown off a home. Tree branches up to 5 inches in diameter were downed. A wind gust of 57 MPH was





July 2005 Time Local Path Length Path Number of Estimated Persons Width Damage MINNESOTA, Central and South Central recorded on an anemometer in town. **Ramsey County** Vadnais Hgts 0950CST Thunderstorm Wind (EG52) Shingles were torn off the roof of an apartment building. **Chisago County** 1 W Stacy 23 0955CST 0 Thunderstorm Wind (EG52) Power lines were downed. **Ramsey County** Roseville 23 0955CST 0 0 Thunderstorm Wind (EG52) A tree was downed onto a car. **Anoka County** Countywide 23 1000CST Flash Flood 1100CST Road flooding was reported at the intersection of 7th and Highway 10 in Anoka. Mud washed onto the road at the intersection of Highway 47 and Stinson near Anoka. Sixteen inches of water covered the intersection of Highway 10 and Jefferson Lane in Blaine. **Chisago County** Lindstrom 23 1000CST Thunderstorm Wind (EG52) Power lines were downed. **Ramsey County** 1000CST 0 Thunderstorm Wind (EG52) Maplewood Trees were downed. **Ramsey County** 1000CST St Paul Thunderstorm Wind (EG52) Trees and power lines were downed along Orange Avenue near White Bear Avenue. A fence and swing set were damaged by the felled trees. At least one tree was also downed onto a vehicle. A fire was also sparked by downed wires. **Ramsey County** White Bear Lake 23 1000CST Thunderstorm Wind (EG55) Several large trees over 1 foot in diameter were downed. **Washington County Forest Lake** 23 1000CST Thunderstorm Wind (EG52) Several trees were downed on the south and east side of Third Lake. The hardest hit area was near the intersection of North Shore Trail (County Road 2) and Jeffrey Avenue. A number of downed trees damaged homes and blocked roads. Blown in windows were also reported. In addition, downed trees were reported at Castlewood Golf Course. A large tree branch was also downed onto County Road 47 near Highway 61. At the Forest Lake Airport several doors were torn from a hangar and one third of the roof of another hangar was blown off. Six planes housed in these hangars were damaged. **Washington County** Thunderstorm Wind (EG52) Hugo 1000CST 0 A small tree was downed onto Highway 61. **Washington County** Thunderstorm Wind (EG52) Marine On St Croix Numerous trees were downed. At least one quarter mile of power lines were also downed. **Washington County** Stillwater 23 1010CST 0 0 250K Lightning A home on Penfield Avenue North in Stillwater Township was struck by lightning and caught fire. The blaze caused \$250,000 damage to the structure. Another home on Ozark Avenue North in May Township was damaged by a lightning strike. The time was

estimated.





July 2005 Time Local/ Standard Path Length (Miles) Number of Persons Killed Injured Estimated
Damage
erty Crops Path Width (Yards)

MINNESOTA, Centra	al and S	outh Central			
Washington County Stillwater	south		ned a serious	s arm injury wl	Thunderstorm Wind (EG52) her bike at Lowell Park along the St. Croix River just nen a tree crashed down and pinned her to the ground.
Washington County Cottage Grove	23 Lighti struct	_	0 Highway 61	0 and Jamaica A	Lightning Avenue. The resulting fire caused minor damage to the
Washington County					
Cottage Grove	23 Limbs	1015CST s up to 4 inches in diameter fell onto power l	o ines.	0	Thunderstorm Wind (EG50)
Mcleod County					
Hutchinson	25	1330CST 1500CST	0	0	Heavy Rain
	A tota	al of 4.35 inches of rain was recorded. Minor	street flood	ing occurred.	
Stearns County 3 E Rockville	25 Trees	1410CST were downed at Grand Lake.	0	0	Thunderstorm Wind (EG52)
Stearns County					
St Agusta	25 Trees	1415CST were downed. The time was estimated.	0	0	Thunderstorm Wind (EG52)
Sherburne County					
Clear Lake	25 A trai	1445CST ined spotter reported a wind gust of 60 MPH.	0	0	Thunderstorm Wind (EG52)
Sherburne County					
3 SE Clear Lake	25 A citi	1450CST zen reported a funnel cloud between Clear L	0 ake and Bec	0 eker. The time	Funnel Cloud was estimated.
Wright County					
Silver Creek	25 Law 6	1459CST enforcement spotted a funnel cloud.	0	0	Funnel Cloud
Anoka County					
Anoka	25 A cot	1515CST tonwood tree was felled onto a ride at the fai	0 rgrounds. T	0 he time was est	Thunderstorm Wind (EG52) imated.
Hennepin County					
Countywide	25	1530CST 1730CST	0	0	Heavy Rain
	Mino	r street flooding was reported in St. Louis Pa	rk and Deep	haven.	
Watonwan County					
St James	25 A tree	1545CST e was downed.	0	0	Thunderstorm Wind (EG52)
Blue Earth County					
Mapleton	25 Trees	1630CST were downed in a 6 block area of town.	0	0	Thunderstorm Wind (EG52)
Freeborn County					
Countywide	25	1800CST 1900CST	0	0	Flash Flood
	Law e	enforcement reported several cars stalled in f	lood waters.		





		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage	July 2005		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm		
WISCONSIN, West										
St. Croix County 5 WNW River Falls	08 Ping po	1755CST ong ball sized hai	l damaged veş	getation.	0	0		Hail(1.50)		
Pierce County		4040 CCT								
River Falls			_				•	Flash Flood and moved very little for 2 hours. It he intersection of County Road F and		
	produced torrential rainfall which caused flooding in River Falls and in nearby rural areas. The intersection of County Road F and County Road M about 5 miles west of River Falls was flooded. Driveway flooding was reported along or adjacent to Highway 35 north northwest of River Falls. In River Falls high water covered the following intersections: Main and Pine, Roosevelt and Winter, and Maple and Wesley. A total of 4.25 inches of rain was recorded in only 75 minutes just north of the Pierce/St. Croix county line northwest of River Falls. A total of 3.24 inches was recorded on the east side of River Falls. A community parade in progress in downtown River Falls was washed out by the untimely downpour.									
St. Croix County River Falls	08	1830CST			0	0		Flash Flood		
River Fans		2030CST	a thunderstor	m formed ox			rea shortly after 6 PM			
	An isolated slow-moving thunderstorm formed over the River Falls area shortly after 6 PM and moved very little for 2 hours. It produced torrential rainfall which caused flooding in River Falls and in nearby rural areas. The intersection of County Road F and County Road M about 5 miles west of River Falls was flooded. Driveway flooding was reported along or adjacent to Highway 35 north northwest of River Falls. In River Falls high water covered the following intersections: Main and Pine, Roosevelt and Winter, and Maple and Wesley. A total of 4.25 inches of rain was recorded in only 75 minutes just north of the Pierce/St. Croix county line northwest of River Falls. A total of 3.24 inches was recorded on the east side of River Falls. A community parade in progress in downtown River Falls was washed out by the untimely downpour.									
Pierce County	ne.	19 2 00°T			0	0		U-21/0 99\		
River Falls	08 Pea to r	1859CST nickel sized hail v	was reported.		0	0		Hail(0.88)		
Pierce County River Falls	_	1859CST oak tree was do d power line block				0 downed	between Maple and I	Thunderstorm Wind (EG52) Division streets near Winter Street. A		
Pierce County										
5 W River Falls	08 Four in	1930CST ch tree limbs wer	re downed nea	ar the intersec	0 etion of Cou	0 nty Road	F and County Road M	Thunderstorm Wind (EG50)		
Dunn County 2 SE Menomonie	17 The chi	•	nt home on co	ounty highwa	0 ay Y was st	0 ruck by l	30K ightning. The resulting	Lightning ng fire caused \$30,000 damage to the		
Chippewa County 5 SE Chippewa Falls	17 A few t	2120CST	d in Lafayette	township. T	0 The time was	0 estimated	d.	Thunderstorm Wind (EG52)		
Eau Claire County Eau Claire	17 Winds	2208CST estimated by law	enforcement	at 60 MPH d	0 owned trees			Thunderstorm Wind (EG52)		





July 2005 Time Local Path Length Path Number of Estimated Width Persons Damage WISCONSIN, West **Polk County** Countywide 23 0 0 Thunderstorm Wind (EG52) Power lines were downed onto Main Street in St. Croix Falls. Trees and power lines were downed onto 51st Avenue, County Road M one mile south of County Road K, just north of 5th Avenue on 170th Street, and on Highway 65 near 40th Avenue in Alden Township. In Lincoln Township a tree was downed onto a power line on 60th Avenue. In Balsam Lake Township a tree was downed onto 165th Avenue one mile west of 130th Street and on 120th Avenue just west of 150th Street. St. Croix County 23 1015CST Somerset Lightning Three men were injured by lightning when the bolt struck a car they were about to get into at a campground. One man, age 25, was touching the handle of the car when the bolt struck and was critically injured. When rescuers arrived a few minutes later he did not have a pulse. They were able to revive the victim with an AED. Another man, age 25, was standing right next to the person who was critically injured and was knocked unconscious and suffered burns on his arms. He was transported to the hospital in stable condition. A third man in his 20s standing a few feet away was struck in the foot by the bolt but refused medical treatment. **Pierce County River Falls** 1020CST Thunderstorm Wind (EG52) Trees and branches were downed across town, including one which fell across the intersection of Fourth Street and Pine Street. **Pierce County Spring Valley** 23 1023CST 0 Thunderstorm Wind (EG52) A large tree was downed. **Polk County** St Croix Falls Flash Flood 23 A washout was occurred at the intersection of Kentucky Street and Adams Street just east of Highway 87. St. Croix County **Glenwood City** 1045CST Thunderstorm Wind (EG52) 0 Two trees were downed. St. Croix County Roberts 23 1045CST Thunderstorm Wind (EG52) Power lines were downed. **Dunn County** 1046CST Thunderstorm Wind (EG52) Menomonie 23 0 Trees and power lines were downed. **Dunn County** Thunderstorm Wind (EG52) 4 N Menomonie Several trees, including one Oak up to 16 inches in diameter, were downed. **Barron County** 2 W Dallas 23 1055CST 0 Thunderstorm Wind (EG52) Trees were downed onto 3 1/2 Avenue east of Highway 25. **Pepin County Durand** Thunderstorm Wind (EG52) Trees and power lines were downed including a 100 year old Maple on Prospect Street. **Barron County Dallas** Thunderstorm Wind (EG55) 23

Downed trees blocked roads. The roof of a home, the roof of a barn, and the roof of a silo were blown off in rural Dallas.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	idth Persons		Estimated Damage Property Crops		July 2 Character of Storm	
Location	Date	Standard	(WIIICS)	(Tards)	Kilica	Injuicu	Troperty	Crops	Character of Storm	
WISCONSIN, West										
	Numer	ous power lines wer	re downed.							
Dunn County										
Meridean	23 Power	1100CST lines were downed.			0	0			Thunderstorm Wind	(EG52)
Chippewa County										
Countywide	23	1110CST 1130CST			0	0	125K		Thunderstorm Wind	(EG52)
	Extens	ive tree and power	line damage	was reporte	ed countyv	wide. At	Chippewa '	Valley Regi	ional Airport a large han	gar door was

Extensive tree and power line damage was reported countywide. At Chippewa Valley Regional Airport a large hangar door was ripped off and planes suffered minor damage. A car window was broken and the side of a hangar was dented by flying debris and/or hail. In Halle 10 orchard trees were damaged. In Cornell the center of three silos was blown down onto a 100 foot barn. A nearby milk house and calf barn were also demolished by the high wind. In Eagleton a corn field was flattened and an Oak tree was uprooted.

Eau Claire County Countywide

23 1110CST 0 0 592K Thunderstorm Wind (EG55)

Half of a chimney was blown off a house and several trees and power lines were downed in Eau Claire. Trees that were uprooted on Jefferson Street, Farwell Street, Mars Avenue, State Street, West Lexington Street, Skeels Avenue, Agres Street, Powell Drive, Taft Avenue, and Keys Street were between 1 and 2 feet in diameter. Two downed trees damaged cars. One home at the intersection of Powell Drive and Hawkins Avenue had a large branch puncture the roof in several locations. The branch also damaged the living room ceiling. Four miles northeast of Eau Claire on County Road Q trees in excess of 10 inches in diameter were damaged, power lines and street signs were damaged, and a pole shed suffered structural damage. Scattered trees and power lines were also downed elsewhere across the county, including in Augusta. Some downed trees damaged houses and vehicles. In Washington an ice fishing shack was blown into the back of a Sheriff's Department squad car, shattering the car's rear window and denting the truck lid. In rural Fall Creek a Quonset-style barn was thrown into the air and smashed into a silo. On the same property a barn was demolished, two sides of a pole barn were downed, and the roof of a farmhouse was damaged. Total property damage at the rural Fall Creek site was estimated at \$22,000.